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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re United States Patent Application of:

Applicant: Gerardo R. Vasta, et al.

Application No.: 09/771,935

Date Filed: January 30, 2001

Title: ASSAY FOR PERKINSUS IN SHELLFISH

Docket No.: 4115-137 CIP

Examiner: Unknown

Group Art Unit: 1711

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TC 1700

**FIRST CLASS MAIL CERTIFICATE**

I hereby certify that I am mailing the attached documents to the Commissioner for Patents on the date specified, in an envelope addressed to the Commissioner for Patents, Washington, DC 20231, and First Class Mailed under the provisions of 37 CFR 1.8.

  
Blake Crouch

August 29, 2001  
Date of Mailing

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

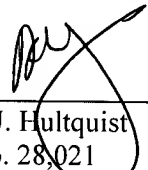
Pursuant to 37 C.F.R. §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. One copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.

- ☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.
- ☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from the U.S. International Searching Authority in a counterpart international application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(1).
- ☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(2).
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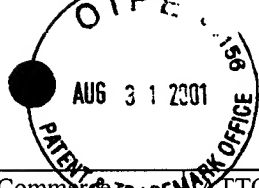
Respectfully submitted,



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CFORM PTO-1449 US Dept. of Commerce Patent and Trademark Office  INFORMATION DISCLOSURE STATEMENT  (use several sheets if necessary)	ATTORNEY DOCKET NO.	SERIAL NO.
	4115-137 CIP	09/771,935
	APPLICANT	
	Gerardo R. Vasta, et al.	
	FILING DATE	GROUP
	January 30, 2001	1711

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,683,195	07/28/1987	Mullis et al.			
	AB	4,683,202	07/28/1987	Mullis et al.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AC	Andrews, J.D. (1954) Notes on Fungus Parasites of Bivalve Mollusks in Chesapeake Bay. Proc. Natl. Shellfish. Assoc. 45: 157-63.				
	AD	Ausubel, F.M., R. Brent, R.E. Kingston, D.D. Moore, J.G. Seidman, J.A. Smith and K. Struhl (eds.) (1992) <i>Short Protocols in Molecular Biology</i> , 2nd Edition. John Wiley and Sons, NY (p. 2-10 - 2-12).				
	AE	Cai, J., M.D. Collins, V. McDonald and D.E. Thompson (1992) PCR Cloning and Nucleotide Sequence Determination of the 18S rRNA Genes and Internal Transcribed Spacer 1 of the Protozoan Parasites <i>Cryptosporidium parvum</i> and <i>Cryptosporidium muris</i> . Bioch. Bioph. Act. 1131: 317-320.				
	AF	Choi, K.S., D.H. Lewis, E.N. Powell, P.F. Frelie, and S.M. Ray (1991) A Polyclonal Antibody Developed from <i>Perkinsus marinus</i> Hypnospores Fails to Cross React with Other Life Stages of <i>P. marinus</i> in Oyster ( <i>Crassostrea virginica</i> ) Tissues. J. Shellfish. Res. 10: 411-415.				
	AG	Coss, C.A., J.A.F. Robledo and G.R. Vasta (2001) Fine Structure of Clonally Propagated <i>In Vitro</i> Life Stages of a <i>Perkinsus</i> sp. Isolated from the Baltic Clam <i>Macoma balthica</i> . Journal of Eukaryotic Microbiology 48: 38-51.				
	AH	Coss, C.A., J.A.F. Robledo, G.M. Ruiz and G.R. Vasta (2001) Description of <i>Perkinsus andrewsi</i> n. sp. Isolated from the Baltic Clam ( <i>Macoma balthica</i> ) by Characterization of the Ribosomal RNA Locus, and Development of a Species Specific PCR-Based Diagnostic Assay. Journal of Eukaryotic Microbiology 48:52-61.				
	AI	Coss, C.A., A.C. Wright, J.A.F. Robledo and G.R. Vasta (1997) PCR Detection and Quantification of <i>Perkinsus marinus</i> in Chesapeake Bay Invertebrates. Abstract. Proc. Nat. Shellfish. Assoc. 88:41.				
	AJ	Dungan, C.F. and B.S. Roberson (1993) Binding Specifications of Mono- and Polyclonal Antibodies to the Protozoan Oyster Pathogen <i>Perkinsus marinus</i> . Dis. Aquat. Org. 15:9-22.				
	AK	Fong, D., R. Rodriguez, K. Koo, J. Sun, M. Sogin, D. Bushek, D.T. L. Littlewood, and S. Ford. 1993. Small subunit ribosomal RNA gene sequence of the oyster parasite <i>Perkinsus marinus</i> . Mol. Mar. Biol. And Biotech. 2: 3436-350.				
	AL	Goggin, C.L. 1994 Variations in the Internal Transcribed Spacers and 5.8S Ribosomal RNA from Five Isolates of the Marine Parasite <i>Perkinsus</i> (Protista, Apicomplexa). Mo. Biochem. Parasitol. 65: 179-182				
	AM	Goggin, C.L. and S.C. Barker (1993) Phylogenetic Position of the Genus <i>Perkinsus</i> (Protista, Apicomplexa) Based on Small Subunit Ribosomal RNA. Mol. Biochem. Parasitol. 60:65-70.				
	AN	Kleinschuster, S.J. and S.L. Swink (1993) A Simple Method for the <i>In Vitro</i> Culture of <i>Perkinsus marinus</i> . The Nautilus 107:76-78.				
	AO	Mackin, J.G. 1962. Oyster disease caused by <i>Dermocystidium marinum</i> and other microorganisms in Louisiana. Publ. Inst. Mar. Sci. Univ. Tex 7: 132-229				
	AP	Marsh, A.G., J.D. Gauthier, G.R. Vasta. 1995. A semiquantitative PCR assay for assessing <i>Perkinsus marinus</i> infections in the eastern oyster, <i>Crassostrea virginica</i> . J. Parasitol., 81: 577-583.				

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## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)

	AQ	Medlin, L. et al. (1988) The Characterization of Enzymatically Amplified Eukaryotic 16S-Like rRNA-Coding Regions. <i>Gene</i> 71:491-499.
	AR	McLaughlin, S.M. and M. Faisal (1998) <i>In Vitro</i> Propagation of Two <i>Perkinsus</i> Species from the Softshell Clam <i>Mya Arenaria</i> . <i>Parasite</i> 5:341-348.
	AS	Perkins, F.O. (1988) Structure of Protistan Parasites Found in Bivalve Mollusks. In <i>Disease Process in Marine Bivalve Mollusks</i> (W.S. Fisher (ed.)): American Fisheries Society Special Publication Vol. 18, Academic Press, NY, p. 93-111.
	AT	Perkins, F.O. (1996) Foreward. <i>J. Shellfish. Res.</i> 15:5-7.
	AU	Ray, S.M. (1952) A Culture Technique for the Diagnosis of Infections with <i>Dermocystidium marinum</i> (Mackin, Owen, and Collier) in Oysters. <i>Science</i> 116:360-361.
	AV	Ray, S.M. (1966) A Review of the Culture Method for Detecting <i>Dermocystidium marinum</i> , with Suggested Modifications and Precautions. <i>Proc. Natl. Shellfish. Assoc.</i> 54:55-69.
	AW	Robledo et.al. (1998) Species-Specificity and Sensitivity of a PCR-Based Assay for <i>Perkinsus marinus</i> in the Eastern Oyster, <i>Crassostrea virginica</i> : a Comparison with the Fluid Thioglycollate Assay. <i>J. Parasitol.</i> 84:1237-1244.
	AX	Robledo et.al. (1999) Nucleotide Sequence Variability in the Nontranscribed Spacer of the rRNA Locus in the Oyster Parasite <i>Perkinsus marinus</i> . <i>J. Parasitol.</i> 85:650-656.
	AY	Robledo, J.A., C.A. Coss and G.R. Vasta (2000) Characterization of the Ribosomal RNA Locus of <i>Perkinsus atlanticus</i> and Development of a Polymerase Chain Reaction-Based Diagnostic Assay. <i>J. Parasitol.</i> 86:972-978.
	AZ	Sindermann, C.J. and Lihgtner, D.V. 1988. <i>Disease Diagnosis and Control in North American Marine Aquaculture</i> . Elsevier, New York, 431 pp.
	BA	Stokes, N.A. and Burreson, E.M. 1995. A sensitive and Specific DNA Probe for the Oyster Pathogen Haplosporidium <i>Nelsoni</i> . <i>J. Euk. Microbiol.</i> 42: 350-357.
	BB	Sykes, P.J., S.H. Neoh, M.J. Brisco, E. Hughes, J. Condon, and A.A. Morley. 1992. Quantitation of targets for PCR by use of limiting dilution. <i>Biotechniques</i> 13: 444-449.

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